A0 - Do not scale

NOMINAL LIFE Vn=50 years USE CLASS Cu=II	
GENERAL NOTES	
STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.	
MATERIALS PROPERTIES	
CONCRETE	
ACCORDING TO UNI EN 206 - UNI 11104	
LEAN CONCRETE	
CLASS:	C12/15
EXPOSURE CLASS:	X0
CONCRETE FOR FOUNDATIONS	
CLASS:	C35/45
EXPOSURE CLASS:	XC2
MINIMUM CONSISTENT CLASS:	S4
MAXIMUM NOMINAL DIMENSIONS OF THE AGGREGATES:	32mm
COVER BAR:	30mm
CONCRETE FOR WALLS AND SLABS	
CLASS:	C35/45
EXPOSURE CLASS:	XC1-XC3-XC4
MINIMUM CONSISTENT CLASS:	S5
MAXIMUM NOMINAL DIMENSIONS OF THE AGGREGATES:	20mm
COVER BAR:	25mm
CONCRETE FOR PRECAST COLUMNS	
CLASS:	C45/55
EXPOSURE CLASS:	XC1-XC3
CONCRETE FOR PRECAST ELEMENTS (TT,BEAMS)	
CLASS:	C45/55
EXPOSURE CLASS:	XC1-XC3
CONCRETE FOR CAST IN PLACE(NON PROTECTED)	
CLASS:	C35/45
EXPOSURE CLASS:	XC4
MINIMUM CONSISTENT CLASS:	S5
MAXIMUM NOMINAL DIMENSIONS OF THE AGGREGATES:	20mm
COVER BAR:	30mm
STEEL	
REINFORCING STEEL BARS	
ORDINARY STEEL GRADE	B450C
TENSILE STRENGTH:	$f_{tk} \geq 540$ N/mm²
YIELD STRENGTH:	$f_{yk} \geq 450$ N/mm²
STEEL FOR PROFILES	
ORDINARY STEEL GRADE ACCORDING TO UNI EN 10025	S355J0
TENSILE STRENGTH:	$f_{tk} \geq 510$ N/mm²
YIELD STRENGTH:	$f_{yk} \geq 355$ N/mm²
WELDING WHERE NOT OTHERWISE INDICATED, FILLET WELD WILL HAVE THROAT THICKNESS EQUAL TO 0,7 OF THE MINIMUM THICKNESS OF STEEL PROFILES TO BE WELD ACCORDING TO UNI EN ISO 15614 - UNI EN ISO 3834	
PRESTRESSING STEEL	
CHARACTERISTIC VALUE OF 0.1% PROOF STRESS:	$f_{p(1)k} \geq 1670$ N/mm²
TENSILE STRENGTH:	$f_{tk} \geq 1860$ N/mm²
STRUCTURAL BOLT CLASS 8.8 (SB - EN 15048)	
TENSILE STRENGTH:	$f_{tk} \geq 800$ N/mm²
YIELD STRENGTH:	$f_{yk} \geq 640$ N/mm²
EXECUTION CLASS STEEL STRUCTURES (UNI EN 1090-2) EXC3	
FIRE RESISTANCE FOR DATAHALL AND ADMIN BUILDING STRUCTURE: R60' FIRE RESISTANCE FOR GANTRY STRUCTURE: R15'	

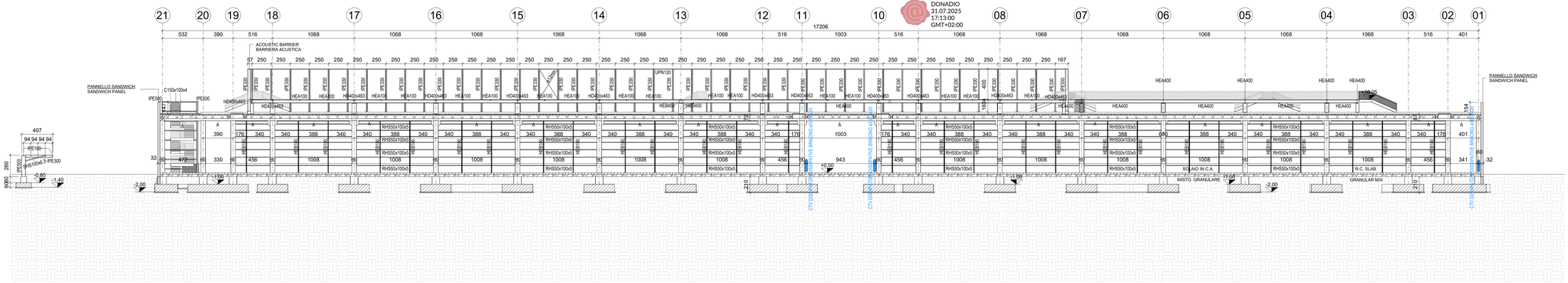
NOTE: THE OPENINGS MUST BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL PROJECT
NOTE: THE ACOUSTIC BARRIERS AND SYSTEMS WILL BE EQUIPPED WITH METAL CARPENTRY

VITA NOMINALE Vn=50 anni CLASSE D'USO II	
NOTE GENERALI	
DISEGNI STRUTTURALI SONO DA UTILIZZARE CONGIUNTAMENTE A DISEGNI ARCHITETTONICI, MECCANICI, IDRAULICI ED ELETTRICI	
PROPRIETA' MATERIALI	
CALCESTRUZZI	
CONFORMI ALLE NORME UNI EN 206 - UNI 11104	
MAGRONE	
CLASSE DI RESISTENZA:	C12/15
CLASSE DI ESPOSIZIONE:	X0
CALCESTRUZZO PER FONDAZIONI	
CLASSE DI RESISTENZA:	C35/45
CLASSE DI ESPOSIZIONE:	XC2
CLASSE MINIMA DI CONSISTENZA:	S4
DIMENSIONE NOMINALE MASSIMA DEGLI AGGREGATI:	32mm
COPRIFERRO:	30mm
OPERE IN ELEVAZIONE	
CLASSE DI RESISTENZA:	C35/45
CLASSE DI ESPOSIZIONE:	XC1-XC3-XC4
CLASSE MINIMA DI CONSISTENZA:	S5
DIMENSIONE NOMINALE MASSIMA DEGLI AGGREGATI:	20mm
COPRIFERRO:	25mm
CALCESTRUZZO PER PILASTRI PREFABBRICATI	
CLASSE DI RESISTENZA:	C45/55
CLASSE DI ESPOSIZIONE:	XC1-XC3
CALCESTRUZZO PER ELEMENTI PREFABBRICATI(TT, TRAVI)	
CLASSE DI RESISTENZA:	C45/55
CLASSE DI ESPOSIZIONE:	XC1-XC3
CALCESTRUZZO PER OPERE ESTERNE (NON PROTETTE)	
CLASSE DI RESISTENZA:	C35/45
CLASSE DI ESPOSIZIONE:	XC4
CLASSE MINIMA DI CONSISTENZA:	S5
DIMENSIONE NOMINALE MASSIMA DEGLI AGGREGATI:	20mm
COPRIFERRO:	30mm
ACCIAI	
ACCIAIO PER C.A.	
ACCIAIO ORDINARIO	B450C
TENSIONE CARATTERISTICA DI ROTTURA:	$f_{tk} \geq 540$ N/mm²
TENSIONE CARATTERISTICA DI SNERVAMENTO:	$f_{yk} \geq 450$ N/mm²
ACCIAIO PER CARPENTERIA METALLICA	
ACCIAIO STRUTTURALE CONFORME ALLA NORMA UNI EN 10025	S355J0
TENSIONE CARATTERISTICA DI ROTTURA:	$f_{tk} \geq 510$ N/mm²
TENSIONE CARATTERISTICA DI SNERVAMENTO:	$f_{yk} \geq 355$ N/mm²
SALDATURE OVE NON DIVERSAMENTE INDICATO, A CORDONI D'ANGOLO CON PROFONDITA' DI GOLA PARI A 0,7 DELLO SPESSORE MINIMO DEI PROFILI DA SALDARE CONFORME ALLE NORME UNI EN ISO 15614 - UNI EN ISO 3834	
ACCIAIO ARMONICO	
TENSIONE CARATTERISTICA ALL0.1% DI DEF. TOTALE:	$f_{tk} \geq 1670$ N/mm²
TENSIONE DI ROTTURA A TRAZIONE:	$f_{tk} \geq 1860$ N/mm²
BULLONI classe 8.8 (assiemi SB - EN 15048)	
TENSIONE CARATTERISTICA DI ROTTURA:	$f_{tk} \geq 800$ N/mm²
TENSIONE CARATTERISTICA DI SNERVAMENTO:	$f_{yk} \geq 640$ N/mm²
CLASSE DI ESECUZIONE STRUTTURE IN ACCIAIO (UNI EN 1090-2) EXC3	
RESISTENZA AL FUOCO STRUTTURE DEI DATAHALL E UFFICI: R60' RESISTENZA AL FUOCO STRUTTURE DEL GANTRY: R15'	

NOTA: LE FOROMETRIE DEVONO ESSERE COORDINATE CON IL PROGETTO CIVILE E IMPIANTISTICO
NOTA: LE BARRIERE ACUSTICHE E GLI IMPIANTI SARANNO DOTATI DI CARPENTERIA METALLICA

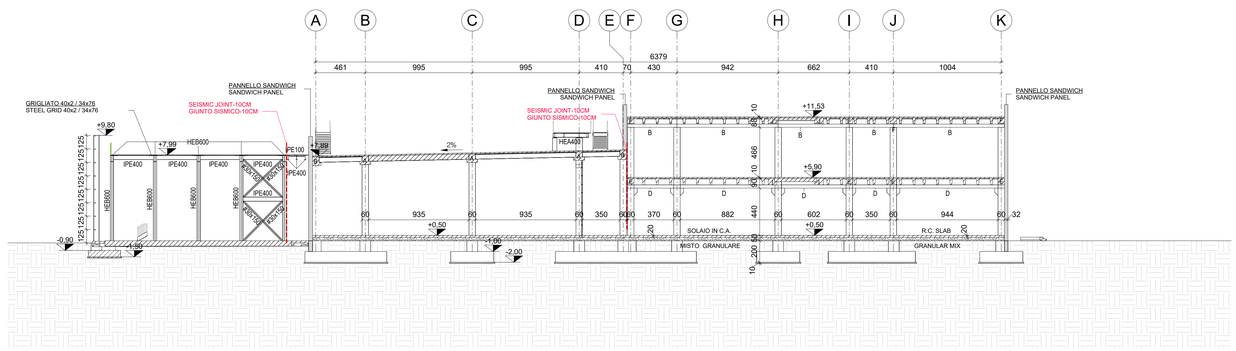
SECTION A-A
SEZIONE A-A

SCALE 1 : 200



SECTION B-B
SEZIONE B-B

SCALE 1 : 200

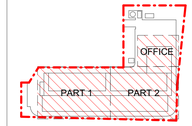


General Notes

1. This drawing has been checked in accordance with Black & White Engineering (B&W) QA checking procedures.
2. Do not scale from this drawing. All dimensions indicated are in millimeters unless otherwise stated. Validate all measurements on site.
3. All plant and equipment dimensions are typical. The Contractor should show actual, approved plant and equipment sizes.
4. This drawing is to be read in conjunction with all relevant B&W MEP specifications, schedules and standard key to symbols sheet.
5. Any discrepancies between the drawings and other documents should be brought to the attention of the engineer.
6. This drawing is not an installation drawing. It is the Contractors responsibility to make all installation coordination shop drawings.
7. Final ceiling coordination subject to interior design package.
8. Contractor to coordinate final distribution routes with available sleeves and openings in beams / structure.
9. The contents of this drawing shall be read in conjunction with the current revisions of other relevant Architectural, Structural, Mechanical and Electrical drawings and all relevant sections of the specifications.

2000 0 2000 4000 6000 8000 N
SCALE: 1:200

Key Plan



Rev	Details	By / Chkd / App	Date
P02	STAGE 3 - 100% ISSUE	GSA/CAD	28/02/2025
P01	STAGE 2 - 100% ISSUE	MHA/CAD	11/10/2024

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Project Title
MIL05B

Drawing Title
Typical Sections

Project Status
STAGE 3

Discipline	Status Code
STRUCTURAL	S4
Project Number	Scale @ A0 / Revision
P10504	1:200 / P02

Drawing Number
MIL05B-SPS-DC-XX-DR-S-20406

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